

**New England Waste Services of ME, Inc.
d/b/a Pine Tree Landfill
Penobscot County
Hampden, Maine
A-850-77-4-M**

**Departmental
Findings of Fact and Order
New Source Review
Amendment #2**

After review of the air emissions license amendment application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

FACILITY	New England Waste Services of ME, Inc. d/b/a Pine Tree Landfill (PTL)
PART 70 LICENSE NUMBER	A-850-70-A-I
LICENSE TYPE	Chapter 115 Minor Revision
NAICS CODES	562212
NATURE OF BUSINESS	Solid Waste Landfill
FACILITY LOCATION	Hampden, Maine
PART 70 LICENSE ISSUANCE DATE	June 9, 2003
NSR AMENDMENT ISSUANCE DATE	June 5, 2007
PART 70 LICENSE EXPIRATION DATE	June 9, 2008

B. Revision Description

PTL previously permitted the installation of a proprietary wet scrubbing system for use in control of emissions of SO₂ from the landfill. However, this system has not yet reached the stage in development where PTL would feel confident that it would achieve adequate control of the sulfur compounds in the landfill gas. Therefore, PTL has proposed the installation of a Thiopaq wet scrubbing system in lieu of the PTL system.

The Thiopaq wet scrubbing system is manufactured by NATCO Group, Inc. Based on manufacturer's specifications, PTL proposes to install a sufficient number of Thiopaq units to treat all of the landfill gas collected at PTL to the emission rates listed prior to flaring and/or use in the proposed landfill gas-to-energy engines. The best available control analysis (BACT) for SO₂ emissions

from the landfill is therefore amended to allow for the use of the Thiopaq scrubbers instead of PTL's proprietary scrubbing system.

Because these units are made to order, installation will not be complete by the current July 1, 2007 deadline. PTL proposes to have one Thiopaq unit installed and operating by July 31, 2007 and the other units installed and operating by December 31, 2007 (the deadline listed in Amendment #1 for demonstrating compliance with applicable emission limits). All previously licensed emission limits and compliance deadlines remain in effect.

As part of their minor revision request, PTL has also requested clarification regarding scrubber downtime for maintenance purposes. Amendment #1 (A-850-77-2-A) requires the scrubbing system to be operated at all times except for periods of unavoidable equipment malfunction. It is anticipated, and encouraged, that PTL will perform regular preventative maintenance on the scrubbing units and allowance for such has been included in the conditions of this amendment.

C. Application Classification

The application for PTL does not violate any applicable federal or state requirements and does not reduce monitoring, reporting, testing or record keeping. This application does seek to modify a Best Available Control Technology (BACT) analysis performed per New Source Review.

This amendment will not increase emissions of any pollutant. Therefore, this amendment is determined to be a minor revision under MEDEP Chapters 115 and has been processed as such.

ORDER

The Department hereby grants Air Emission License Minor Revision A-850-77-4-M pursuant to the preconstruction licensing requirements of MEDEP Chapter 115 and subject to the standard and special conditions below.

Severability. The invalidity or unenforceability of any provision, or part thereof, of this License shall not affect the remainder of the provision or any other provisions. This License shall be construed and enforced in all respects as if such invalid or unenforceable provision or part thereof had been omitted.

The following shall replace Condition (1) of New Source Review Amendment A-850-77-2-A:

(1) **Flare #3**

- A. PTL shall operate and maintain a landfill gas collection and control system (including Flare #3). [06-096 CMR 115(4)(B)(4)(d)]
- B. Emissions from Flare #3 shall not exceed the following [06-096 CMR 115(4)(B)(4)(d)]:

Emission Unit	PM (lb/hr)	PM ₁₀ (lb/hr)	NO _x (lb/hr)	CO (lb/hr)	VOC (lb/hr)
Flare #3	1.53	1.53	3.60	33.3	11.39

- C. Beginning on January 1, 2008, SO₂ emissions from Flare #3 shall not exceed 5.71 lb/hr except for periods of maintenance and unavoidable malfunction (as described in 38 M.R.S.A. §349.9) of the Thiopaq scrubbers. Compliance with the SO₂ lb/hr emission limit shall be based on sampling of the gas prior to combustion in the flare and a determination of the total amount of sulfur compounds contained in the sample. It will be assumed that all sulfur compounds are converted to SO₂ and emissions calculated accordingly. [06-096 CMR 115(4)(B)(4)(d)]
- D. The initial testing for sulfur compounds as described in Condition (1)(C) above shall be done prior to January 1, 2008. Testing shall be performed annually thereafter with no more than 14 months between tests. [06-096 CMR 115(4)(B)(4)(d)]

The following shall replace Condition (2) of New Source Review Amendment A-850-77-2-A:

(2) **Thiopaq Scrubbers**

- A. PTL shall install and operate one Thiopaq scrubber by July 31, 2007. Additional scrubbers shall be installed as necessary to meet the emission limit listed in Condition (1)(C). A sufficient number of scrubbers to treat the collected landfill gas to licensed emission limits shall be in place and operational by December 31, 2007. [06-096 CMR 115(4)(B)(4)(d)]

- B. PTL shall operate and maintain a wet scrubbing system for control of TRS in the landfill gas stream except for periods of maintenance and unavoidable equipment malfunction. [06-096 CMR 115(4)(B)(4)(d)]
- C. Flaring or combustion of landfill gas that has not been scrubbed to below licensed emission limits due to scrubber maintenance shall not exceed 30 hours/year on a 12 month rolling total. [06-096 CMR 115(4)(B)(4)(d)]
- D. PTL shall keep a log of the wet scrubber maintenance and downtime and provide it to the Department upon request. [06-096 CMR 115(4)(B)(4)(d)]

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2007.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAVID P. LITTELL, COMMISSIONER

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 5/18/07

Date of application acceptance: 5/18/07

Date filed with the Board of Environmental Protection: _____

This Order prepared by Lynn Ross, Bureau of Air Quality.